

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet 1 of 3

***Complete If Known***

**Application Number**

**Filing Date**

**First Named Inventor** Richard Eustis Fulton III

## Group Art Ur

Examiner Name **Unknown**

157 PRO

12/20/01

ARMY 1000-6

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|----------------------|-----------------------------------|---|---|---|
|                    |                       | Number               | Kind Code <sup>2</sup> (if known) |   |   |   |
|                    | A1                    | 4,248,214            |                                   | Hannah et al.                                   | 02-03-1981  |   |
|                    | A2                    | 4,541,438            |                                   | Parker et al.                                   | 09-17-1985  |   |
|                    | A3                    | 4,592,356            |                                   | Gutierrez                                       | 06-03-1986  |   |
|                    | A4                    | 4,774,948            |                                   | Markham   | 10-04-1988  |   |
|                    | A5                    | 4,799,495            |                                   | Hawkins et al.                                  | 01-24-1989  |   |
|                    | A6                    | 4,813,422            |                                   | Fisher et al.                                   | 03-21-1989  |   |
|                    | A7                    | 4,817,622            |                                   | Pennypacker et al.                              | 04-04-1989  |   |
|                    | A8                    | 4,852,568            |                                   | Kensey  | 08-01-1989  |   |
|                    | A9                    | 4,966,583            |                                   | Debbas  | 10-30-1990  |   |
|                    | A10                   | 4,986,279            |                                   | O'Neill   | 01-22-1991  |   |
|                    | A11                   | 5,014,713            |                                   | Roper et al.                                    | 05-14-1991  |   |
|                    | A12                   | 5,018,530            |                                   | Rank et al.                                     | 05-28-1991  |   |
|                    | A13                   | 5,080,655            |                                   | Haaga   | 01-14-1992  |   |
|                    | A14                   | 5,083,570            |                                   | Mosby   | 01-28-1992  |   |
|                    | A15                   | 5,158,084            |                                   | Ghiatas   | 10-27-1992  |   |
|                    | A16                   | 5,195,988            |                                   | Haaga   | 03-23-1993  |   |
|                    | A17                   | 5,197,482            |                                   | Rank et al.                                     | 03-30-1993  |   |
|                    | A18                   | 5,221,269            |                                   | Miller et al.                                   | 06-22-1993  |   |
|                    | A19                   | 5,325,857            |                                   | Nabai et al.                                    | 07-05-1994  |   |
|                    | A20                   | 5,334,216            |                                   | Vidal et al.                                    | 08-02-1994  |   |

## FOREIGN PATENT DOCUMENTS

**Examiner  
Signature**

Brooks Smeal

Date  
Considered

R-9-02

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031

Approved for use through 10/31/2002. OMB 0651-0031  
**U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE**  
a collection of information unless it contains a valid OMB control number.

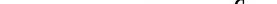
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

|  |   |    |   |                                      |                           |
|--|---|----|---|--------------------------------------|---------------------------|
| <p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p> |   |    |   | <p><b>Complete If Known</b></p>      |                           |
|  |   |    |   | <p><b>Application Number</b></p>     |                           |
|  |   |    |   | <p><b>Filing Date</b></p>            |                           |
|  |   |    |   | <p><b>First Named Inventor</b></p>   | Richard Eustis Fulton III |
|  |   |    |   | <p><b>Group Art Unit</b></p>         |                           |
|  |   |    |   | <p><b>Examiner Name</b></p>          | Unknown                   |
|  |   |    |   | <p><b>Attorney Docket Number</b></p> | ARTM 1000-6               |
| Sheet  | 2 | of | 3 |                                      |                           |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. 1 | U.S. Patent Document |                                      | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|--------------------|------------|----------------------|--------------------------------------|---|---|--|
|                    |            | Number               | Kind Code <sup>2</sup><br>(If known) |   |   |  |
| BB                 | A21        | 5,353,804            |                                      | Kornberg et al.                                 | 10-11-1994  |  |
|                    | A22        | 5,388,588            |                                      | Nabai et al.                                    | 02-14-1995  |  |
|                    | A23        | 5,394,886            |                                      | Nabai et al.                                    | 03-07-1995  |  |
|                    | A24        | 5,409,004            |                                      | Sloan   | 04-25-1995  |  |
|                    | A25        | 5,423,321            |                                      | Fontenot  | 06-13-1995  |  |
|                    | A26        | 5,467,780            |                                      | Nabai et al.                                    | 11-21-1995  |  |
|                    | A27        | 5,479,936            |                                      | Nabai et al.                                    | 01-02-1996  |  |
|                    | A28        | 5,483,972            |                                      | Nabai et al.                                    | 01-16-1996  |  |
|                    | A29        | 5,487,392            |                                      | Haaga   | 01-30-1996  |  |
|                    | A30        | 5,517,997            |                                      | Fontenot  | 05-21-1996  |  |
|                    | A31        | 5,526,822            |                                      | Burbank et al.                                  | 06-18-1996  |  |
|                    | A32        | 5,556,410            |                                      | Mittermier et al.                               | 09-17-1996  |  |
|                    | A33        | 5,647,374            |                                      | Crtrer  | 07-15-1997  |  |
|                    | A34        | 5,660,185            |                                      | Shmulewitz et al.                               | 08-26-1997  |  |
|                    | A35        | 5,795,308            |                                      | Russin  | 08-18-1998  |  |
|                    | A36        | 5,807,276            |                                      | Russin  | 09-15-1998  |  |
|                    | A37        | 6,053,876            |                                      | Fisher  | 04-25-2000  |  |
|                    | A38        | 6,161,034            |                                      | Burbank et al.                                  | 12-12-2000  |  |
| BB                 | A39        | 6,183,497            | B1                                   | Sing et al.                                     | 02-06-2001  |  |

## FOREIGN PATENT DOCUMENTS

|                       |   |                    |         |
|-----------------------|---|--------------------|---------|
| Examiner<br>Signature |  | Date<br>Considered | 12-5-02 |
|-----------------------|---|--------------------|---------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

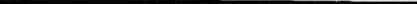
**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|  |  |          |           |                                 |                               |
|--|--|----------|-----------|---------------------------------|-------------------------------|
| <p>Substitute for form 1449B/PTO</p> <p><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p> |  |          |           | <p><b>Complete If Known</b></p> |                               |
| <p>Sheet</p>   |  | <p>3</p> | <p>of</p> | <p>3</p>                        | <p>Application Number</p>     |
|  |  |          |           |                                 | <p>Filing Date</p>            |
|  |  |          |           |                                 | <p>First Named Inventor</p>   |
|  |  |          |           |                                 | <p>Group Art Unit</p>         |
|  |  |          |           |                                 | <p>Examiner Name</p>          |
|  |  |          |           |                                 | <p>Attorney Docket Number</p> |

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
| <i>B</i>           | C1                    | HUSSMAN et al., "Optical Breast Lesion Localization Fiber: Preclinical Testing of a New Device," Radiology, 200:865-866 (September 1996).   |                |
| <i>J</i>           | C2                    | HUSSMAN et al., "MR Mammographic Localization Work in Progress," Radiology, 189:915-917 (1993).   |                |
| <i>J</i>           | C3                    | "Surgical Treatment of Breast Disease, Making the Diagnosis of Breast Cancer: Non-Palpable Breast Masses," BreastDoctor.com, <a href="http://www.breastdoctor.com/breast/surgery/biopsy.htm">http://www.breastdoctor.com/breast/surgery/biopsy.htm</a> .        |                |
| <i>B</i>           | C4                    | "Surgical Treatment of Breast Disease: What's New? Diagnosing Breast Cancer: The ABBI Breast Biopsy System," BreastDoctor.com, <a href="http://breastdoctor.com/breast/surgery/abbi.htm">http://breastdoctor.com/breast/surgery/abbi.htm</a> .                  |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |

|                       |   |                    |         |
|-----------------------|---|--------------------|---------|
| Examiner<br>Signature |  | Date<br>Considered | 12-9-02 |
|-----------------------|---|--------------------|---------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

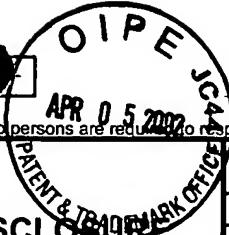
Please type a plus sign (+) inside this box

PTO/SB/08A (08-00)

Approved use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



**Substitute for form 1449A/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

## Shee

1

1

1

***Complete if Known***

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

|                    |   |                 |         |
|--------------------|---|-----------------|---------|
| Examiner Signature |  | Date Considered | 12-9-02 |
|--------------------|---|-----------------|---------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

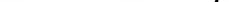
**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

|   |                   |   |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
|---|-------------------|---|---|--|--|--------------------|------------|--|--|-------------|------------------|--|--|----------------------|-------------------|--|--|----------------|------|--|--|---------------|---------|--|--|------------------------|--|-------------|--|
|  Substitute for form 1449A/PTO |                   | <b>Complete if Known</b>  |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i>            |                   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%;">Application Number</td> <td colspan="3">10/027,157</td> </tr> <tr> <td>Filing Date</td> <td colspan="3">20 December 2001</td> </tr> <tr> <td>First Named Inventor</td> <td colspan="3">Richard E. Fulton</td> </tr> <tr> <td>Group Art Unit</td> <td colspan="3">3736</td> </tr> <tr> <td>Examiner Name</td> <td colspan="3">Unknown</td> </tr> <tr> <td colspan="2">Attorney Docket Number</td> <td colspan="2">ARTM 1000-6</td> </tr> </table> |   |  |  | Application Number | 10/027,157 |  |  | Filing Date | 20 December 2001 |  |  | First Named Inventor | Richard E. Fulton |  |  | Group Art Unit | 3736 |  |  | Examiner Name | Unknown |  |  | Attorney Docket Number |  | ARTM 1000-6 |  |
| Application Number  | 10/027,157        |   |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
| Filing Date   | 20 December 2001  |   |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
| First Named Inventor  | Richard E. Fulton |   |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
| Group Art Unit  | 3736              |   |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
| Examiner Name   | Unknown           |   |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
| Attorney Docket Number  |                   | ARTM 1000-6   |   |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |
| Sheet   | 1                 | of  | 1 |  |  |                    |            |  |  |             |                  |  |  |                      |                   |  |  |                |      |  |  |               |         |  |  |                        |  |             |  |

|                       |   |                    |         |
|-----------------------|---|--------------------|---------|
| Examiner<br>Signature |  | Date<br>Considered | 12-9-02 |
|-----------------------|---|--------------------|---------|

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.